SUMMARY OF RESPONSE

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The Examiner states: "The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1,

148 USPQ 459 (1966), that are applied for establishing a background for determining

obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or non-

obviousness."

2. The Examiner states: "Claims 10-22 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Flashinski et al (U.S.P.N. 6,031,967) in view of Barnhart (U.S.P.N. 6,413,476).

With respect to claims 10, 18 and 20-21, the Flashinski reference teaches a heat-regulating

container (14) for dispensing insecticides (26) into an atmosphere including the following: a heat-

regulating container (14) having a flat reservoir with insecticide (22), an interior bottom surface

with interior side walls (unlabeled inner surface of 22), exterior outer surface of a lower surface

(32), the interior surface of the lower surface (unlabeled inner surface of 22) of the reservoir

portion (22). See col.4, lines 34-37, which teaches that the entire container is made from one

piece with projections in figure 5 extending from the interior surface of the unlabeled lower

surface of the container. The reservoir having a plurality of protuberances (the meaning of

protuberances is equivalent to projections such that the Flashinski reference teaches using a series

of leg-like projections in col 4, lines 21-23), a heating device (10) with a heating surface (12) at

elevated temperature adapted to receive the heat-regulating container (14) and the protuberances

defining several air gaps (col.4, lines 34-37) between the lower surface of the reservoir portion

and the heating surface of the heating device (10) for regulating heat transfer from the heating

surface (figure 4, 12) to the volatile material (figure 4, 26). The Flashinski reference heating

means is through convection heating and fails to disclose that the protuberances are in direct

contact with a heating surface in order to regulate the temperature of the volatile material in the

container. The Barnhart reference discloses a container (3) whose bottom surface is in direct

contact with the heating surface (6) in order to regulate the heat transfer from the heating surface

to the volatile material (102) in the container. Thus, it would have been obvious to one having

ordinary skill in the art at the time the invention was made to substitute the known convective

heating means of the Flashinski reference with the known conductive heating means of the

Barnhart reference since such a substitution makes the heating surface closer to the insecticide

material for faster dispensing.

With respect to claims 11-13, the Flashinski reference teaches a container with a series of leg-like

projections (i.e., protuberances) such that the numbers and the heights of the projections is a

matter of design choice that is well within the scope of the artisan.

With respect to claims 14-16, the Flashinski reference teaches the following: the closure means

includes an impermeable film (col.3, lines4-5), the closure means includes a semi permeable

membrane (col.2, line 65) and the closure means includes a permeable membrane (col.2, line 65).

With respect to claim 17, the Flashinski reference teaches the container (22) includes a volatile

insecticide material (26).

With respect to claim 19, the Flashinski reference teaches a series of leg-like projections (i.e.,

protuberances) in col.4, lines 21-23 such that indenting the unlabeled lower surface of the

reservoir forms the projections from the lower surface of the reservoir in figure 5.

With respect to claim 22, the Flashinski reference teaches a series (uniformly-distributed) of leg-

like projections (i.e., protuberances) in col.4, lines 21-23 such that the projections (30) extend from completely over the exterior bottom surface (32)."

3. The Examiner states: "Claims 10-22 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Flashinski et al (U.S.P.N. 6,031,967) in view of Encyclopedia Britannica Online.

With respect to claims 10, 18 and 20-21, the Flashinski reference teaches a heat regulating

container (14) for dispensing insecticides (26) into an atmosphere including the following: a heat-

regulating container (14) having a flat reservoir with insecticide (22), an interior bottom surface

with interior side walls (unlabeled inner surface of 22), exterior outer surface of a lower surface

(32), the interior surface of the lower surface (unlabeled inner surface of 22) of the reservoir

portion (22) having (col.4, lines 34-37 teaches that the entire container is made from one piece

with projections 30A and 31A in figure 5 extending from the interior surface of the unlabeled

lower surface of the container) a plurality of protuberances (the meaning of protuberances is

equivalent to projections such that the Flashinski reference teaches using a series of leg-like

projections in col.4, lines 21-23), a heating device (10) with a heating surface (12) at elevated

temperature adapted to receive the heat-regulating container (14) and the protuberances defining

several air gaps (col.4, lines 34-37) between the lower surface of the reservoir portion and the

heating surface of the heating device (10) for regulating heat transfer from the heating surface

(figure 4, 12) to the volatile material (figure 4, 26). The Flashinski reference heating means is

through convection heating and fails to disclose that the protuberances are in direct contact

(conduction heating) with the hot surface in order to regulate the temperature of the volatile

material in the container. The Encyclopedia Britannica discloses three known means of heating an

object. Therefore, it would have been obvious to one having ordinary skill in the art to substitute

the known convective heating means of the Flashinski reference with the known conductive

heating means of Encyclopedia Britannica since such a substitution result in moving the heat

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from one object directly to another object (Encyclopedia Britannica Online, line 13).

With respect to claims 11-13, the Flashinski reference teaches a container with a series of leg-like

projections (i.e., protuberances) such that the numbers and the heights of the projections is a

matter of design choice that is well within the scope of the artisan.

With respect to claims 14-16, the Flashinski reference teaches the following: the closure means

includes an impermeable film (col.3, lines 4-5), the closure means includes a semi permeable

membrane (col.2, line 65) and the closure means includes a permeable membrane (col.2, line 65).

With respect to claim 17, the Flashinski reference teaches the container (22) includes a volatile

insecticide material (26).

With respect to claim 19, the Flashinski reference teaches a series of leg-like projections (i.e.,

protuberances) in col.4, lines 21-23 such that indenting the unlabeled lower surface of the

reservoir forms the projections from the lower surface of the reservoir in figure 5.

With respect to claim 22, the Flashinski reference teaches a series (uniformly-distributed) of leg-

like projections (i.e., protuberances) in col.4, lines 21-23 such that the projections (30) extend

from completely over the exterior bottom surface (32)."

Response To Arguments

4. The Examiner states: "Applicant's arguments filed 08/27/2004 have been fully considered but

they are not persuasive. On page 7 of the Response, applicant argues that, "Applicant submits that

the cited prior art does not teach or anticipate a flat container for use in an insecticidal vaporizer,

the container having a bottom surface with a plurality of uniformly-distributed protuberances

extending therefrom for direct contact with a heating surface." The examiner disagrees. The

Flashinski reference discloses a heat-regulating container (14) having a flat reservoir with

insecticide (22), an interior bottom surface with interior side walls (unlabeled inner surface of

22), exterior outer surface of a lower surface (32), the interior surface of the lower surface

(unlabeled inner surface of 22) of the reservoir portion (22) having (col.4, lines 34-37 teaches that the entire container is made from one piece with projections 30A and 31A in figure 5 extending from the interior surface of the unlabeled lower surface of the container) a plurality of protuberances (the meaning of protuberances is equivalent to projections such that the Flashinski reference teaches using a series of leg-like projections in col.4, lines 21-23). The Barnhart reference discloses a container (3) whose bottom surface is in direct contact with the heating surface (6) in order to regulate the heat transfer from the heating surface to the volatile material (102) in the container. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the known convective heating means of the Flashinski reference with the known conductive heating means of the Barnhart reference since such a substitution makes the heating surface closer to the insecticide material for faster dispensing. On page 7 of the Response, applicant argues that, "Flashinski teaches that it is an advantage to eliminate contact between the heating surface and the insecticidal container, whereas the present invention provides for direct contact between the lower surface of the container and the heating surface." The Flashinski reference is applied for the structural limitations of the container and the protuberances extending thereof and not for direct contact with the heating surface. Such a feature is taught in the Flashinski reference. On page 8 of the Response, applicant argues that, "Barnhart does not teach direct contact between the heating element and the reservoir portion of the container." The examiner disagrees. The Barnhart reference discloses that the reservoir (3) in figure 2 is in direct contact with the heating surface (6) of the heating device, which is made up of 6 and 8. The heating surface (6) is heated by heating source (8). The instant claims do not recite the "heating element" limitation, instead, they recite the "a heating surface" limitation. The heating surface is the structure (6) in the Barnhart reference. On page 8 of the Response, applicant argues that, "Nor does Barnhart teach a reservoir portion having a plurality of indentation or protuberances extending, for direct contact with a heating element." The

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Serial No.: 09/870,115 Attorney Docket No.: CLX-701 (470.156) Flashinski reference is applied for the direct heating feature and not for the reservoir limitations.

Such features are disclosed in the Flashinski reference as previously explained above."

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Filing Date: May 30, 2001 Date Mailed: April 12, 2005 Serial No.: 09/870,115 Attorney Docket No.: CLX-701 (470.156) **RESPONSE**

Remark 1:

Applicant has amended the claims to better distinguish the present invention over the cited prior

art references. More particularly, Applicant has replaced the term "protuberances" with the term

"dimples" or "dimpled".

Remark 2:

Applicant requests the Examiner withdraw both Flashinski et al. as well as Barnhart as

anticipating or obviating prior art references. Applicant points out that the cited prior art references fail to

teach a flat reservoir with a dimpled lower surface for volatilizing insecticides. In neither of the cited

references is there any suggestion, drawing or description of any container having any dimpled lower

surface in conductive contact with any heating element. The dimpled lower surface of the novel reservoir

creates a series of air gaps which is useful for controlling conductive heat transfer between the reservoir

and a resistive heating element. The containers of the present invention are novel and non-obvious.

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CONCLUSION

Applicant respectfully submits that for all the foregoing reasons, the claimed subject matter

describes patentable invention. Furthermore, Applicant submits that the specification is adequate and that

the claims are in a condition for allowance. No new matter has been entered.

Applicant hereby respectfully requests Examiner to enter these amendments, find them

descriptive of useful, novel and non-obvious subject matter, and authorize the issuance of a utility patent

for the truly meritorious, deserving invention disclosed and claimed herein.

Without further, Applicant does not intend to waive any claims, arguments or defenses that they

may have in response to any official or informal communication, paper, office action, or otherwise, and

expressly reserves the right to assert any traverse, additional grounds establishing specificity and clarity,

enablement, novelty, uniqueness, non-obviousness, or other patentability, etc.

Further, nothing herein shall be construed as establishing indirectly the basis for any prosecution

history, file wrapper estoppel, or similar in order to limit or bar any claim of infringement of the invention

described herein, either directly or under applicable doctrine of equivalents.

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Respectfully submitted,

Dated: April 12, 2005

RAY K. SHAHANI ATTORNEY AT LAW

Bv:

Ray K. Shahani, Esq.

Attorney for Applicant(s)

Ray K. Shahani, Esq.

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Registration No.: 37,554

Attorney at Law

Twin Oaks Office Plaza

477 Ninth Avenue, Suite 112

San Mateo, California 94402-1854

Telephone: (650) 348-1444 Facsimile: (650) 348-8655

E-mail: rks@attycubed.com

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents attached hereto are being deposited in a postage prepaid, sealed envelope with the United States Postal Service using First Class Mail service under 37 CFR 108 on the date indicated and is addressed to "Commissioner for Patent, Alexandria, Virginia 22313-1450". Signed:

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